

TOWNSHIP OF ABINGTON

(1) PUBLIC WORKS COMMITTEE

**May 31, 2017
7:00 P.M.**

CALL TO ORDER

ROLL CALL: HECKER – FARREN – KLINE – MYERS – ROTHMAN

**Township Manager MANFREDI
Assistant Township Manager WEHMEYER
Township Solicitor CLARKE
Township Engineer POWERS
Director of Code Enforcement MATTEO
Director of Public Works MICCIOLO
Director of W.W.T.P. WRIGLEY**

MINUTES:

Motion to approve the minutes of the May 3, 2017 Public Works Committee Meeting.

PW1. Milling of Township Roads

Motion to authorize \$100,000.00 to be expensed from the Permanent Improvement Fund Balance (Fund 07) for milling.

PW2. MS4 Stormwater Plan for Abington Township

Motion to approve the MS4 Stormwater Plan for Abington Township.

**PUBLIC WORKS COMMITTEE
BOARD ACTION REQUEST**

PW1

May 31, 2017
DATE

AGENDA ITEM NUMBER

DEPARTMENT

AGENDA ITEM

TOWNSHIP MANAGER

Public Works

Milling of Township Roads



PREVIOUS ACTIONS

None

RECOMMENDED BOARD ACTION

Motion to authorize \$100,000.00 to be expensed from the Permanent Improvement Fund Balance (Fund 07) for milling.

COMMENTS

Aqua and PECO have added more main replacement projects for 2017, which will increase Township milling and paving. Some projects will not be completed until late fall not allowing us time to mill and pave. These funds will be used towards the milling portions, allowing us more time to pave before the paving season ends.

Please refer to attached Finance Committee Minutes of May 18, 2017 on page 3 and 4 under discussion of Township Overlay.

TRAINING AND CONFERENCE EXPENDITURES:

Commissioner Kline made a MOTION, seconded by Commissioner Hecker to recommend approval to the full Board the Training and Conference Expenditures activity. Advance and Travel expenditures for the month of April, 2017 totaled \$0.00 and \$3,310.47, respectively.

YTD Training and Conference Expenditures totaled \$7,892.66.

MOTION was ADOPTED 4-0.

STATEMENT OF CONDITONS:

The Committee reviewed statement of conditions for various funds.

CONTINGENGY EXPENSE REPORTS:

The Committee reviewed contingency expense reports.

OTHER MATTERS:

Discussion of Township Overlay:

Mr. Angelo Pontelandolfo, Superintendent of Highway, requested approval of expenditure in the amount of \$100,000.00 for milling purposes. Aqua and PECO have added main replacement projects for 2017 up to 21 miles and for staff to handle all of that milling work will be difficult. A lot of these projects will be begin later in the year and we begin our leaf program in the fall, and at that time, the paving work stops and he will have no time to mill what Aqua and PECO tear up. He is requesting to hire a subcontractor to do just the milling portion of the work so he can get the paving done. Milling for the smaller areas will be done in-house.

Commissioner Kline asked how much roadway will be milled for that amount and where will the funds be taken from.

Mr. Pontelandolfo replied approximately 45,000 sq. yards, which covers a lot.

Mr. Barron added capital fund, fund balance.

Manager Manfredi clarified that the milling work was bid out at the beginning of the year. Is that correct?

Mr. Pontelandolfo replied yes, unit price is \$2.25 a square yard.

Manager Manfredi clarified that Aqua and PECO would mill just the area they disturb. Is that correct?

Mr. Pontelandolfo replied yes, they will only mill the lane-disturbed and not curb-to-curb, which is only what they are required to do per Township ordinance.

Commissioner Kline made a MOTION, seconded by Commissioner Hecker to recommend approval to the full Board expenditure in the amount of \$100,000.00 to be taken from Permanent Improvement Fund to pay for subcontractor to do additional milling work.

MOTION was ADOPTED 4-0.

Board Action Request – Resolution No. 17-014 – Disposition of Certain Finance Office Records

Commissioner Kline made a MOTION, seconded by Commissioner Sanchez to recommend approval to the full Board to adopt Resolution No. 17-014, authorizing the disposition of certain Finance Office records as set forth in Exhibit “A.”

MOTION was ADOPTED 4-0.

Discussion of Township Vehicle:

Mr. Barron said he, along with Manager Manfredi will discuss with Public Works Director, Mr. Micciolo about what Township/Police vehicles are needed going forward, and then come back to Finance Committee for consideration.

Discussion of Township Phone System:

Mr. Barron said Township building’s phone system is out-of-date and needs replacing and we will get pricing from a few phone companies, and then come back to Finance Committee for consideration.

ADJOURNMENT: 7:58 p.m.

sev

PUBLIC WORKS

BOARD ACTION REQUEST

May 31, 2017

DATE

PW2

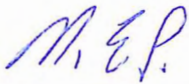
AGENDA ITEM NUMBER

**DEPARTMENT
MANAGER**

AGENDA ITEM

**TOWNSHIP
MANAGER**

Engineering



MS4 Stormwater Plan
For Abington Township

Richard Manfredi



PREVIOUS ACTIONS

May 3, 2017 – Draft Plan for MS4 Stormwater Program presented to community.

RECOMMENDED BOARD ACTION

Motion to approve the MS4 Stormwater Plan for Abington Township.

COMMENTS

The Draft Plan was presented to the community so they have an opportunity to review and provide written comment on the Abington Township MS4 Stormwater Plan.

There was a 30-day public comment period from May 4, 2017 to June 2, 2017.

A new Stormwater permit will be submitted in September of 2017 to the PA Department of Environmental Protection (PaDEP). See attached public notice.

The power point presentation and booklet can be revisited on the Township website at www.abington.org/Home/Components/News/News/1178/16

PUBLIC NOTICE
Abington Township MS4 Stormwater Plan

Abington Township is preparing a permit application for an Individual Stormwater Permit to be submitted in September of 2017 to the PA Department of Environmental Protection (PADEP) per the Federal Clean Water National Pollutant Discharge Elimination System (NPDES), PA Clean Streams Law and the PADEP-issued Municipal Separate Stormwater Sewer System (MS4) Permit for municipalities in watersheds with Total Maximum Daily Load (TMDL) and Pollution Reduction Plan (PRP) requirements.

A Public Meeting to present the Draft Plan will be held during the Public Work Committee's regularly scheduled meeting on May 3, 2017, at 7:00 pm, at Abington Township Municipal Building, 1176 Old York Road, Abington, PA 19001. The community is invited to provide verbal comments on the plan at the meeting.

In addition, members of the community have an opportunity to review and provide written comment on the plan, including the draft *Total Maximum Daily Load (TMDL) Plan and several Pollution Reduction Plans (PRPs)*. There will be a **30-Day Public Comment Period from May 4, 2017 - June 2, 2017** in order to allow the members of the public to read and submit written comments on the draft TMDL and PRP reports. A copy of the plan will be available on or before May 4, 2017 on the Township website, at www.abington.org, and a hardcopy can be reviewed in person at the Abington Township Municipal Building during normal business hours. Written comments can be submitted to the Township Engineer, Abington Township, 1176 Old York Road, Abington, PA 19001. All comments on the plan must be received by close of business, June 2, 2017.

The TMDL and PRP Plans Abington Township has prepared describe measures and steps the Township will implement in the coming years to reduce sediment and/or nutrient pollution in streams in the Wissahickon Watershed, the Tookany/Tacony-Frankford Watershed, and the Pennypack Watershed. The measures to be implemented include structural stormwater infiltration basins and trenches, stormwater recharge basins, stream bank restoration and stabilization measures, and other best management practices and control measures that reduce the volume and velocity of stormwater runoff flows entering creeks during storms.

Michael LeFevre
Township Manager



Township of Abington MS4 Program

Individual Permit Application (IP)
Total Maximum Daily Load Plan(TMDL)
Pollutant Reduction Plans (PRPs)



May 3, 2017

Michael E. Powers. P.E.
Township Engineer

Agenda

Introduction & Background

MS4 Individual Permit

Total Maximum Daily Load Plan (TMDL)

Pollutant Reduction Plans (PRPs) and Pollutant Control Measures (PCMs)

Implementation

Questions and Comments



Introduction & Background

MS4: Municipal Separate Storm Sewer System

- Abington's MS4 Facilities have been covered by a General Permit since 2003. The current permit expires in March 2018, and the renewal application is due on **September 16, 2017**.
- Abington must apply for an Individual Permit due to the fact that a TMDL has been established for the Wissahickon Watershed (Sandy Run).
- The Individual Permit requires the creation of a Stormwater Management Plan (SWMP) for the Township.
- In addition, as part of the Individual Permit, the Township must develop a plan to meet TMDL discharge limits and also prepare Pollutant Reduction Plans (PRPs) and Pollutant Control Measures for all impaired streams in the Township.



Abington's Stormwater Management Plan (SWMP)

Abington must, at a minimum, develop, implement, and enforce a SWMP designed to reduce the discharge of pollutants from the MS4:

- to the maximum extent practicable (MEP),
- to protect water quality, and
- to satisfy the appropriate water quality requirements of the Clean Water Act. [40 CFR 122.34(a)]

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) ANNUAL/PROGRESS REPORT

For the Reporting Period: March 16, 2014 to March 15, 2016

- Annual Report Progress Report
 New Permittee Renewal Permittee

Due Date: May 16, 2016

GENERAL INFORMATION

Permittee Name:	Township of Abington	NPDES Permit No.:	PAG130012
Mailing Address:	1176 Old York Road	Effective Date:	March 16, 2013
City, State, Zip:	Abington, PA 19001	Expiration Date:	March 15, 2018
MS4 Contact Person:	Michael E. Powers, P.E.	Renewal Due Date:	September 17, 2017

USEPA Expectations for an MS4 Permit Program

Stormwater Management for Small MS4s...are the following addressed?

- Applicability
- Limitations of Coverage
- Stormwater Management Program (SWMP)
 - *(MCM 1) Public Education and Outreach*
 - *(MCM 2) Public Involvement/Participation*
 - *(MCM 3) Illicit Discharge Detection & Elimination*
 - *(MCM 4) Construction Site Stormwater Runoff Control*
 - *(MCM 5) Post-Construction Stormwater Management in New Development and Redevelopment Pollution*
 - *(MCM 6) Prevention/Good Housekeeping for Municipal Operations*
- Discharges to Water Quality Impaired Waters
 - *TMDL Plans*
 - *PRP Plans*
- Sharing Responsibility
- Reviewing and Updating SWMPs
- Monitoring
- Recordkeeping
- Reporting

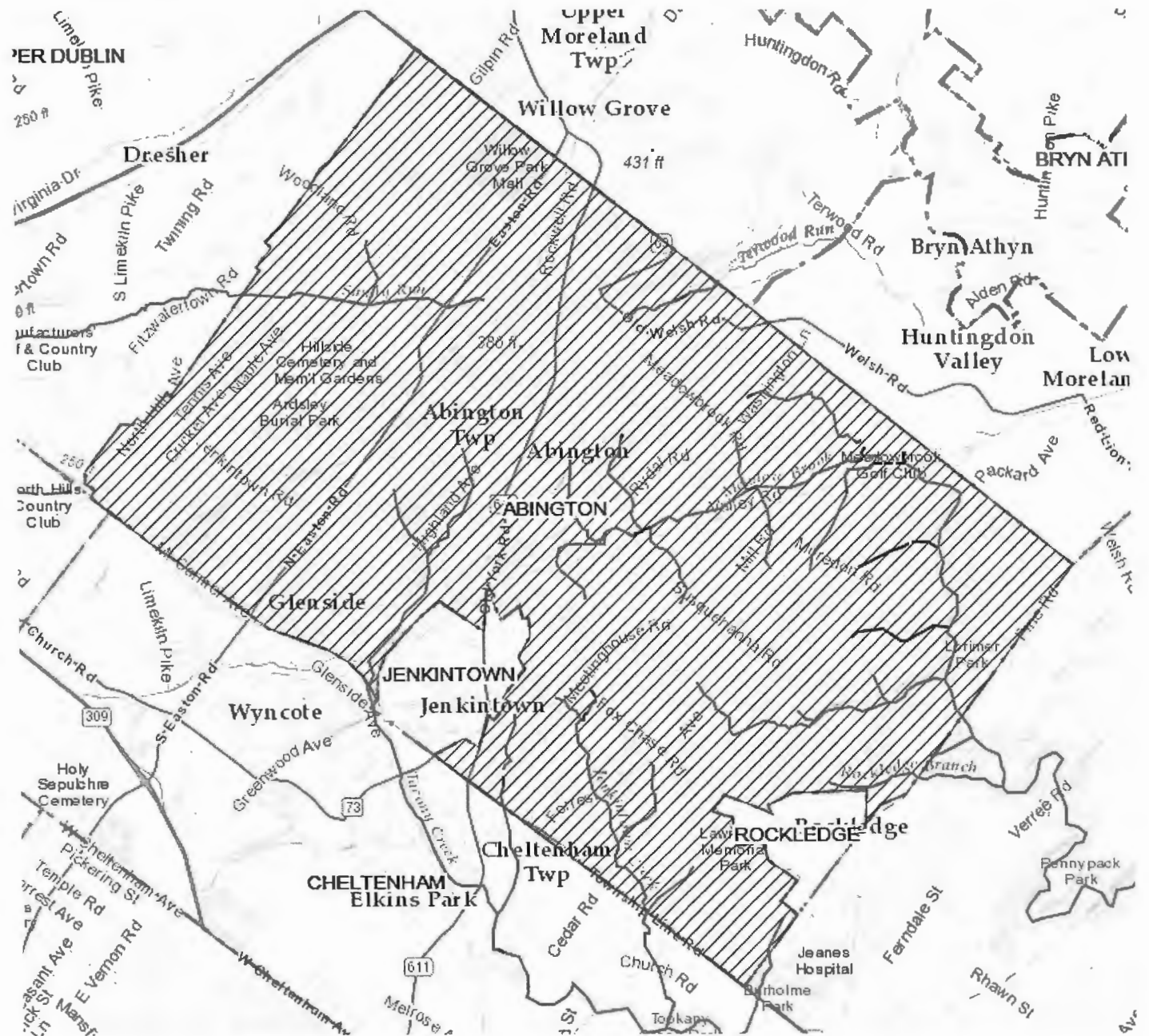


PADEP MS4 Requirements Table

ABINGTON TOWNSHIP TMDL-PRP/PCM REQUIREMENTS		
IMPAIRED WATERS	REQUIREMENTS	OTHER CAUSES OF IMPAIRMENT
Pennypack Creek	Appendix B-Pathogens (4a); Appendix C-Priority Organics (4a) Appendix E-Organic Enrichment/Low D.O. (4a); Appendix E-Siltation (5)	Cause Unknown (5)
Wissahickon TMDL	TMDL Plan-Siltation; Suspended Solids (4a)	Cause Unknown (4a)
Meadow Brook	Appendix E-Siltation (5)	Cause Unknown (5)
Jenkintown Creek		Flow Alterations; Other Habitat Alterations; Water/Flow Variability (4c)
East Branch Jenkintown Creek		Flow Alterations; Other Habitat Alterations; Water/Flow Variability (4c)
Frankford Creek	Appendix C-PCB (4a); Appendix E-Organic Enrichment/Low D.O. (5)	Flow Alterations Other Habitat Alterations Water/Flow Variability (4c)s
Unnamed Tributaries to Wissahickon Creek		Other Habitat Alterations (4c)
Terwood Run	Appendix E-Siltation (5)	Cause Unknown (5)
Rockledge Branch	Appendix E-Siltation (5)	Cause Unknown (5)
Wissahickon Creek	Appendix E-Nutrients (4a); Appendix B-Pathogens (5)	Water/Flow Variability (4c)
Robinhood Brook	Appendix E-Siltation (5)	Cause Unknown (5)
Sandy Run	Appendix B-Pathogens (4a); Appendix E-DO/BOD; Nutrients (4a)	Other Habitat Alterations; Water/Flow Variability (4c)
Tacony Creek	Appendix E-Organic Enrichment/Low D.O. (5)	Flow Alterations; Other Habitat Alterations; Water/Flow Variability (4c)

Impaired Streams – Abington Township

Red – Impaired
Blue – Not Impaired



Stream Segment Catchments

Wissahickon Creek	195 Acres
Pennypack Creek	2,097 Acres
Rockledge Branch	290 Acres
Meadow Brook	1,910 Acres
Robinhood Brook	382 Acres
Jenkintown Creek	644 Acres
Tacony Creek	2,108 Acres
Terwood Run	450 Acres
East Branch Jenkintown Creek	343 Acres
Sandy Run	2,098 Acres



Wissahickon Creek TMDL

The following table summarizes the pollutant load reduction requirement for Abington Township that has been established to address **Siltation** Impairments for the Township:

WISSAHICKON CREEK TMDL PLAN (2003)	SILTATION LOADS
SILTATION: ABINGTON'S EXISTING LOAD (2003 TMDL):	484,143.0 lbs/year 2
SILTATION: ABINGTON'S WLA REQUIREMENT (2003 TMDL):	128,913.4 lbs/year 0
SILTATION: ABINGTON'S REQUIRED REDUCTION (2003 TMDL):	355,229.6 lbs/year 2
SILTATION: ABINGTON'S PERCENT REDUCTION REQUIRED (2003 TMDL):	73%

The above load reduction correspond to a 73% reduction of siltation. As per PADEP recommendations the TMDL plan should meet this percentage reduction requirement.

Wissahickon Creek TMDL (2017 Modeling)

	SILTATION	NITROGEN	PHOSPHORUS
2017 STEPL MODELING-ABINGTON'S BASE LOAD:	720,900 lbs/year	17,649 lbs/year	2,745 lbs/year
2017 STEPL MODELING-ABINGTON'S 73% SILTATION REQUIRED REDUCTION:	526,257 lbs/year		
2017 STEPL MODELING-ABINGTON'S 5% NUTRIENT REQUIRED REDUCTION:		882.45 lbs/year	137.25 lbs/year

Wissahickon TMDL BMP Reductions

POLLUTANT REDUCTION: BMP's CONSTRUCTED (STEPL MODEL)

Susquehanna Woods Stormwater Retention Basin (2005):

Roslyn Park Rain Garden (2009):

Riparian Buffer Replacement (2009):

Susquehanna Woods Basin #1 (2004):

Susquehanna Woods Basin #2 (2004):

Hamel Avenue Infiltration Basin (2007):

Sandy Run Streambank Stabilization (Woodland Road) (2009):

Sandy Run Streambank Stab. (Avondale & Susquehanna) (2013):

POLLUTANT REDUCTION: BMP's TO BE CONSTRUCTED (STEPL MODEL)

Susquehanna Woods Basin #3 Retrofit:

Sandy Run Streambank Stabilization:

Madison Avenue Meadow Construction:

Roychester Park Rain Garden

Roychester Riparian Buffer Restoration

Roychester Park Bioretention/Infiltration Trench

Roychester Park Infiltration Berms/Ret. Grading

Evergreen Manor Park Infiltration Basin

Grove Park Streambank Restoration

Ardsley Wildlife Sanctuary Basin Renovations

TOTAL PROJECTED BMP POLLUTANT REDUCTION:

SILTATION

20,243 lbs/year

982 lbs/year

2,683 lbs/year

7,724 lbs/year

4,652 lbs/year

15,375 lbs/year

10,463 lbs/year

40,313 lbs/year

20,138 lbs/year

39,234 lbs/year

4,173 lbs/year

4,716 lbs/year

6,467 lbs/year

1,729 lbs/year

5,433 lbs/year

15,829 lbs/year

195,000 lbs/year

142,475 lbs/year

537,629 lbs/year

NITROGEN

160 lbs/year

16 lbs/year

29 lbs/year

67 lbs/year

32 lbs/year

295 lbs/year

14 lbs/year

52 lbs/year

153 lbs/year

51 lbs/year

79 lbs/year

90 lbs/year

71 lbs/year

33 lbs/year

107 lbs/year

314 lbs/year

254 lbs/year

612 lbs/year

2,428 lbs/year

PHOSPHORUS

63 lbs/year

3 lbs/year

8 lbs/year

12 lbs/year

7 lbs/year

54 lbs/year

6 lbs/year

24 lbs/year

26 lbs/year

24 lbs/year

15 lbs/year

17 lbs/year

25 lbs/year

4 lbs/year

19 lbs/year

58 lbs/year

117 lbs/year

71 lbs/year

553 lbs/year

Abington Township PRPs

- A. The permittee shall achieve the pollutant load reduction(s) (lbs/year) proposed in its PRP within 5 years following DEP's approval of coverage under the General Permit (identified on page 1). The minimum percent reduction for pollutant loadings of sediment and Total Phosphorus (TP) shall be 10% and 5%, respectively. If the surface water is impaired for both sediment and nutrients, both sediment (10%) and TP (5%) reductions must be achieved. If the surface water is impaired for sediment alone, a sediment (10%) reduction must be achieved. If the cause of impairment is nutrients, a TP (5%) reduction must be achieved. Pollutant reduction efficiencies for selected BMPs shall be in accordance with the BMP Effectiveness Values document published by DEP (3800-PM-BCW0100m) or Chesapeake Bay Program Office expert panel reports. The permittee shall submit a report demonstrating implementation of the PRP as an attachment to the first Annual MS4 Status Report that is due following completion of the 5th year of General Permit coverage.

- 10% sediment reduction
- 5% Total Phosphorus reduction



PRP Loading and BMP Reductions

ABINGTON POLLUTANT REDUCTION PLANS

PENNYPACK CREEK PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 Melmar Basin & Stabilization
 Wyndmoor Basin & Stabilization
 Irvin Road Streambank Stabilization
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

SILTATION LOADS

359,739lbs/year
 10%
 35,974lbs/year
SILTATION LOADS
 6,600lbs/year
 6,200lbs/year
 23,625lbs/year
 36,425lbs/year

NUTRIENT (TP) LOADS

311 lbs/year
 5 %
 16 lbs/year
NUTRIENT (TP) LOADS
 8.8 lbs/year
 8.1 lbs/year
 14.2 lbs/year
 31.1 lbs/year

MEADOWBROOK CREEK PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 Streambank Stabilization Scout Preserve
 Streambank Stabilization Valley View
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

SILTATION LOADS

549,236lbs/year
 10%
 54,924lbs/year
SILTATION LOADS
 33,750lbs/year
 22,500lbs/year
 56,250lbs/year

ROBINHOOD BROOK PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 SHARPLESS ROAD FILTER BOX
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

SILTATION LOADS

17,064lbs/year
 10%
 1,706lbs/year
SILTATION LOADS
 5,400lbs/year
 5400lbs/year

ROCKLEDGE BRANCH (PENNYPACK) PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 Rockledge Avenue Filter Box
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

SILTATION LOADS

17,081lbs/year
 10%
 1,708lbs/year
SILTATION LOADS
 4,200lbs/year
 4,200lbs/year

PRP Loading and BMP Loadings (continued)

TERWOOD RUN PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 Davidson Road Treatment/Filter Box
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

SILTATION LOADS

13,830 lbs/year
 10 %
 1,383 lbs/year

SILTATION LOADS

28,200 lbs/year
 28,200 lbs/year

TACONY AND FRANKFORD CREEKS PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 ALVERTHORPE PARK EXTENDED DETENTION BASIN
 ALVERTHORPE PARK BIOSWALE
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

NUTRIENT (TP) LOADS

405 lbs/year
 5 %
 20.25 lbs/year
 18.46 lbs/year
 7.54 lbs/year
 26 lbs/year

WISSAHICKON CREEK PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's CONSTRUCTED
 SEE TMDL PLAN: HAMEL AVENUE BASIN
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

NUTRIENT (TP) LOADS

233 lbs/year
 5 %
 11.65 lbs/year
 54 lbs/year
 54 lbs/year

SANDY RUN PRP PLAN

STEPL MODELING-WATERSHED EXISTING LOAD:
 REQUIRED REDUCTION PERCENTAGE:
 REDUCTION REQUIREMENT:
BMP's TO BE CONSTRUCTED
 SEE TMDL PLAN: TOTAL BMPS LESS HAMEL AVENUE BASIN
 TOTAL PROJECTED BMP POLLUTANT REDUCTION:

NUTRIENT (TP) LOADS

2511 lbs/year
 5 %
 125.55 lbs/year
 499 lbs/year
 54 lbs/year

TMDL Budget

TMDL BMP Cost Projections (5-10 Year Schedule)	Budget			
POLLUTANT REDUCTION: BMP's CONSTRUCTED	Construction	Engineering	Grant (Act & Pot)	Total
Susquehanna Woods Stormwater Retention Basin (2005)	-	-	-	-
Roslyn Park Rain Garden (2009)	-	-	-	-
Riparian Buffer Replacement (2009)	-	-	-	-
Susquehanna Woods Basin #1 (2004)	-	-	-	-
Susquehanna Woods Basin #2 (2004)	-	-	-	-
Hamel Avenue Infiltration Basin (2007)	-	-	-	-
Sandy Run Streambank Stabilization (Woodland Road) (2009)	-	-	-	-
Sandy Run Streambank Stab. (Avondale & Susquehanna) (2013)	-	-	-	-
POLLUTANT REDUCTION: BMP's TO BE CONSTRUCTED	Construction	Engineering	Grant (Act & Pot)	Total
Susquehanna Woods Basin #3 Retrofit	\$ 75,000.00	\$ 11,250.00	\$ -	\$ 86,250.00
Sandy Run Streambank Stabilization:**	\$ 60,000.00	\$ 9,000.00	\$ -	\$ 69,000.00
Madison Avenue Meadow Construction	\$ 30,000.00	\$ 4,500.00	\$ -	\$ 34,500.00
Roychester Park Rain Garden	\$ 43,960.00	\$ 8,050.00	\$ 7,800.00	\$ 44,210.00
Roychester Riparian Buffer Restoration	\$ 32,315.00	\$ 8,280.00	\$ 6,100.00	\$ 34,495.00
Roychester Park Bioretention/Infiltration Trench	\$ 21,390.00	\$ 6,900.00	\$ 4,235.00	\$ 24,055.00
Roychester Park Infiltration Berms/Ret. Grading	\$ 44,850.00	\$ 9,430.00	\$ 8,140.00	\$ 46,140.00
Evergreen Manor Park Infiltration Basin	\$ 28,635.00	\$ 10,900.00	\$ 5,935.00	\$ 33,600.00
Grove Park Streambank Restoration	\$ 2,300,000.00	\$ 350,000.00	\$ 2,000,000.00	\$ 650,000.00
Ardley Wildlife Sanctuary Basin Renovations	\$ 500,000.00	\$ 75,000.00	\$ 300,000.00	\$ 275,000.00
Estimated Project Costs for TMDL Plan BMPs	\$ 3,136,150.00	\$ 493,310.00	\$ 2,332,210.00	\$ 1,297,250.00
**2017 Capital Budget				

PRP and PCM Budget

PRP BMP Cost Projections (5 Year Schedule)	Budget			
	POLLUTANT REDUCTION: BMP's TO BE CONSTRUCTED	Construction	Engineering	Grant (Act & Pot)
Pennypack Creek Melmar Rd Basin	\$ 75,000.00	\$ 11,250.00	\$ -	\$ 86,250.00
Pennypack Creek Wyndmoor LA Basin	\$ 75,000.00	\$ 11,250.00	\$ -	\$ 86,250.00
Pennypack Creek Irvin Road Streambank Stabilization**	\$ 50,000.00	\$ 7,500.00	\$ -	\$ 57,500.00
Meadowbrook Streambank Stabilization in Scout Preserve	\$ 135,000.00	\$ 8,050.00	\$ -	\$ 143,050.00
Meadowbrook Streambank Stabilization in Bird Sanctuary	\$ 90,000.00	\$ 8,280.00	\$ -	\$ 98,280.00
Robinhood Brook Sharpless Road Filter Box	\$ 75,000.00	\$ 6,900.00	\$ -	\$ 81,900.00
Rockledge Branch Rockledge Avenue Lane Filter Box	\$ 75,000.00	\$ 9,430.00	\$ -	\$ 84,430.00
Terwood Run Davidson Road Filter Box	\$ 75,000.00	\$ 10,900.00	\$ -	\$ 85,900.00
TTF Alverthorpe Park Extended Detention Basin	\$ 100,000.00	\$ 15,000.00	\$ -	\$ 115,000.00
TTF Alverthorpe Park Bioswale	\$ 115,000.00	\$ 17,250.00	\$ -	\$ 132,250.00
Wissahickon TMDL Measures	\$ -	\$ -	\$ -	\$ -
Sandy Run TMDL Measures	\$ -	\$ -	\$ -	\$ -
Estimated Project Costs for PRP Plan BMPs	\$ 865,000.00	\$ 105,810.00	\$ -	\$ 970,810.00
** 2017 Capital Budget				
PCM Cost Projections (4 Year Schedule)	Budget			
POLLUTANT REDUCTION: BMP's TO BE CONSTRUCTED	Construction	Engineering	Grant (Act & Pot)	Total
Pathogens: Wissahickon Creek	\$ -	\$ 5,000.00	\$ -	\$ 5,000.00
Pathogens: Sandy Run	\$ -	\$ 10,000.00	\$ -	\$ 10,000.00
Pathogens: Pennypack Creek	\$ -	\$ 10,000.00	\$ -	\$ 10,000.00
Priority Organic Compounds: Pennypack Creek	\$ -	\$ 10,000.00	\$ -	\$ 10,000.00
Priority Organic Compounds(PCB): Frankford Creek	\$ -	\$ 10,000.00	\$ -	\$ 10,000.00
Estimated Project Costs for PCM Plans	\$ -	\$ 45,000.00	\$ -	\$ 45,000.00

Total Project Budget

Total Projected Costs					
Abington Township MS4: TMDL/PRP/PCM Program	Construction	Engineering	Grant (Act & Pot)	Total	
Estimated Project Costs for TMDL Plan BMPs	\$ 3,136,150.00	\$ 493,310.00	\$ 2,332,210.00	\$ 1,297,250.00	
Estimated Project Costs for PRP Plan BMPs	\$ 865,000.00	\$ 105,810.00	\$ -	\$ 970,810.00	
Estimated Project Costs for PCM Plans	\$ -	\$ 45,000.00	\$ -	\$ 45,000.00	
Total Projected Costs:	\$ 4,001,150.00	\$ 644,120.00	\$ 2,332,210.00	\$ 2,313,060.00	